

NAME _____

ID# _____

Career Interest _____

FWCEB CORE COURSES

- _____ BIOL 198 Principles of Biology (4)
- _____ BIOL 401 Organismic Biology (5)
- _____ BIOL 433 Intro to Fish, Wildlife, Cons. & Envir. Biol. (3) S
- _____ BIOL 450 Modern Genetics (4)
- _____ BIOL 529 Ecology (3)
- _____ BIOL 632 Ecology Lab (1) S

OPTIONS (Complete 1 or more of options A-D)

A. Fisheries ecology and management biology option

- _____ BIOL 513 Physiological Adaptations of Animals (4) F
- _____ BIOL 542 Ichthyology (3) FO
- _____ BIOL 612 Freshwater Ecology (4) FE
- _____ BIOL 640 Population Biology (3) F
- _____ BIOL 682 Fish Ecology (3) SE
- _____ BIOL 696 Fisheries Management and Techniques (4) FE
- _____ 6 credits from the FWCEB Major Electives list, with no more than 3 credits below the 400-level

B. Wildlife ecology and management option

- _____ BIOL 513 Physiological Adaptations of Animals (4) F
- _____ BIOL 543 Ornithology (3) S
- _____ BIOL 544 Mammalogy (3) F
- _____ BIOL 551 Taxonomy of Flowering Plants (4) F
- _____ BIOL 640 Population Biology (3) F
- _____ BIOL 684 Wildlife Management and Techniques (4) S
- _____ 6 credits from the FWCEB Major Electives list with no more than 3 credits below the 400-level

C. Conservation biology option

- _____ BIOL 500 Plant Phys (3) F & _____ BIOL 501 Plant Phys Lab (1) F
- OR**
- _____ BIOL 513 Physiological Adaptations of Animals (4) F
- _____ BIOL 520 Evolution (3)
- _____ BIOL 640 Population Biology (3) F
- _____ BIOL 642 Principles of Conservation Biology (3) S
- _____ BIOL 542 Ichthyology (3) FO
- _____ BIOL 543 Ornithology (3) S
- _____ Choose BIOL 544 Mammalogy (3) F
- _____ eight BIOL 551 Taxonomy of Flowering Plants (4) F
- _____ credits: BIOL 604 Biology of the Fungi (3) F
- _____ ENTOM 312 General Entomology (3)
- _____ Up to 3 cr. from any BIOL course at 500-level or above _____
- _____ 6 cr. from FWCEB Major Electives list, with no more than 3 cr. below the 400-level

D. Environmental biology option

- _____ BIOL 500 Plant Physiology (3) F
- _____ BIOL 501 Plant Physiology Lab (1) (Lab) F
- _____ Choose BIOL 510 Developmental Biology (3) S
- _____ 12 credits. BIOL 513 Physiol. Adaptations of Animals (4) (Lab) F
- _____ Include BIOL 515 Behavioral Ecology (3) S
- _____ at least BIOL 520 Evolution (3)
- _____ 2 lab BIOL 612 Freshwater Ecology (4) (Lab) FE
- _____ courses. BIOL 640 Population Biology (3) F
- _____ BIOL 642 Principles of Conservation Biology (3) S
- _____ BIOL 682 Fish Ecology (3) (Lab) SE
- _____ BIOL 687 Microbial Ecology (3) S
- _____ BIOL 734 Intro to Genomics and Bioinformatics (3) S
- _____ 3 credits from any biology course at the 400-level or above
- _____ 12 credits from the FWCEB Major Electives list with no more than 3 credits below the 400-level

***Classes required under each option total 27 credits. For each option, classes applied to the specific option requirements and those chosen from the Major Electives list must be different classes.**

FWCEB MAJOR ELECTIVES

BIOL courses numbered 400 level or higher. Biology course listing at <https://courses.k-state.edu/courses/>.

Exceptions to what may be used as FWCEB elective credits:

- ▶ Up to 2 cr. hrs. of BIOL 365 Practicum in Biology may be applied.
- ▶ No more than 3 cr. hrs. from combination of BIOL 695 Internship in Biology and/or BIOL 698 Research in Biology may be used anywhere in the program.
- ▶ BIOL 303 (3) (1 cr applies)
- ▶ The following courses may be applied as FWCEB elective credit: AGCOM 712 (3), AGEC 525 (3), AGRON 305 (4), AGRON 335 (3), AGRON 501 (3), ASI 318 (3), ASI 533 (4), CHM 315 (3), ECON 527 (3), ENTOM 312 (3), ENTOM 625 (3), ENTOM 692 (3), ENTOM 710 (3), GEOG 445 (3), GEOG 460 (3), GEOG 508 (4), GEOG 605 (3), GEOG 608 (3), GEOG 761 (3), GEOL 506 (3), LAR 322 (3), PHILO 595 (3), STAT 703 (3)

Note: F=offered fall only; S=spring only; E=even-numbered years; O=odd years. No indication=offered fall and spring.

Additional degree requirements on back

ARTS & SCIENCES BASIC REQUIREMENTS

- _____ ENGL 100 Expository Writing 1 (3)
_____ ENGL 200 Expository Writing 2 (3)
_____ COMM 106 Public Speaking 1 (3)

Humanities (4 courses, 11 cr. hrs. minimum. May not overlap with social science courses. Only courses taken for 2 or more credit hours satisfy these requirements. B.S. students may use 2 courses in one modern language to fulfill western heritage/literary arts requirements; B.A. students may not.)

- Fine Arts _____
Philosophy _____
Western Heritage _____
Literary Arts _____

Social Sciences (4 courses, 12 cr. hrs. minimum, from at least 3 social science depts. One course must be upper level, i.e., have prerequisite in same dept. or 500 level or above. Taking both ECON 110 & 120 will also fulfill upper level req. Social science courses may not overlap with humanities courses.)

- _____

Upper Level:

U.S. Multicultural Overlay (May overlap with humanities/social science courses.)

- _____

International Overlay (May overlap with humanities/social science courses. May use 4th course in a single foreign language, other than Latin.)

K-STATE 8 REQUIREMENTS

One course may fulfill more than one area, and courses required in a student's major may fulfill these requirements. A minimum of four different course prefixes (e.g., AGECE, MATH, FSHS) must be represented. For more information on the K-State 8, go to <http://www.k-state.edu/kstate8/>.



Aesthetic Experience & Interpretive Understanding



Empirical and Quantitative Reasoning

BIOL 198 Principles of Biology



Ethical Reasoning and Responsibility



Global Issues and Perspectives



Historical Perspectives



Human Diversity within the U.S.



Natural and Physical Sciences

BIOL 198 Principles of Biology



Social Sciences

MAJOR COURSES Offered by Other Departments.

***Mathematics**

- _____ Choose one: MATH 100 College Algebra (3)
MATH 150 Plane Trigonometry (3)
MATH 220 Calculus 1 (4)

Physics

- _____ Choose one OR
PHYS 113 General Physics 1 (4) AND
PHYS 114 General Physics 2 (4)
_____ set: PHYS 115 Descriptive Physics (5)

Statistics

- _____ STAT 340 Biometrics 1 (3)
_____ STAT 341 Biometrics 2 (3)

Chemistry

- _____ CHM 210 Chem 1 (4)
_____ CHM 230 Chem 2 (4)

***Organic Chemistry**

- _____ Choose one OR
CHM 350 General Organic Chem (3) AND
CHM 351 General Organic Chem Lab (2)
_____ set: BIOCH 265 Intro to Organic & Biochem (5)

*For students planning to proceed into graduate school or a career in environmental quality laboratory science, CHM 350/351 and MATH 220 are recommended.

Only Students Completing B.A.

Complete requirements for the B.S. plus 4 courses in a foreign language sequence.

Course Record Sheet

FALL

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